Series EDIC-mini Ray+

EDIC-mini Ray+ A105

Opportunities and advantages

- Edic-mini Ray+ A105 is a professional voice recorder with an adaptive directional pattern and advanced features including playback mode in the Recorder itself and OLED indicator
- The use of 8 digital microphones with built-in 24-bit audio codec provides maximum recording quality in the most difficult conditions, high acoustic sensitivity (up to 20 meters) and a wide dynamic range (24 bit)
- Availability of markers allows it to confirm the authenticity of the recording in court
- Recording is performed onto microSD card up to 256GB, which provides up to 1 year of continuous recording
- Password protection of records
- Marking records with date and time, as well as the serial number of the recorder
- Built-in real-time clock with calendar. Timers to enable recording at the desired date and time
- Voice activation system (VAS), linear and ring recording (DVR mode)
- The ability to listen to recordings from a voice recorder through headphones.

Technical specifications:

Case ..... metal
Dimensions ..... 100*33*8 mm
Weight ..... 30 g
Battery life in record mode ..... up to 90 h
Power supply ..... rechargeable battery
Audio recording mode ..... stereo
Recording format ..... WAV
Frequency band ..... 0,1-15 kHz
Dynamic range ..... 79 dB
Sample rate 8, 16, 32
Indication of operation ..... LED, OLED display
Battery charging time ..... 3-4 hours

Delivery set

- Recorder
- MicroSD card
- Reader for microSD card
- USB card reader for microSD cards
- Headphones with 3.5 mm jack
- Package box.

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Series EDIC-mini 3D

Opportunities and advantages

- The Recorder has three microphones and two memory card slots
- The use of digital microphones with a built-in 24-bit audio codec ensures maximum recording quality in the most difficult conditions, as well as high acoustic sensitivity (up to 18 m) and a wide dynamic range (24-bit)
- The presence of markers allows it to confirm the authenticity of the record in court
- The ability to make parallel recordings on two cards at once allows each of the parties to receive their own copy of the recording of the meeting immediately after its completion
- Recording is carried out onto a microSD card up to 256 GB, which provides up to 1 year of continuous recording
- 3D record mode. The track of the 3rd microphone is mixed into the first two
- Voice Activation System (VAS)
- Timers to start recording at the preset time (4 pcs) (once and daily)
- Linear and circular recording
- Digital markers to check record authenticity and prevent unauthorized modification of files
- Calendar, time and date attachment, encryption of the records made
- Control and indication: buttons and LED

Technical specifications

Case ..... plastic
Dimensions ..... 98*98*20 mm
Weight ..... 66 g
Battery life in record mode ..... up to 150 h
Power supply ..... rechargeable battery
Audio recording mode ..... stereo
Recording format ..... WAV
Frequency band ..... 0,6-15 kHz
Dynamic range ..... 65 dB
Sample rate 8, 16, 32
Battery charging time ..... 3-4 hours

Delivery set

- Recorder
- SD card
- Headphones with 3.5 mm jack
- Charging cable
- Package box

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Series EDIC-mini Deni

Technical specifications

	Edic-mini Deni A150	Edic-mini Deni A151	Edic-mini Deni A152	Edic-mini Deni A154
Case	metal	metal	plastic	metal
Dimensions, mm	11*14.5*33.5	6,5*29.5*32	20*38*78	7.2*34*64
Weight, g	7,5	9	95	29
Battery life in record mode	up to 30 h	up to 60 h	up to 1300 h	up to 210 h
Microphone sensitivity, m	15	15	15	15
Battery charging time	1 h	1 h	18 h	3 h
Indication of operation	LED	LED	LED	LED
Built-in memory, Gb	8	32-128	32-128	32-128
Autonomy in VAS mode, up to, h	130	250	5500	900
Frequency band	0,6-15 kHz	0,6-15 kHz	0,6-15 kHz	0,6-15 kHz
Sample rate	8;16;32	8;16;32	8;16;32	8;16;32
Sensitivity, dB	90	90	90	90
Power supply	rechargeable battery 90mAh	rechargeable battery 180mAh	rechargeable battery 4000mAh	rechargeable battery 650mAh

Delivery set

- Voice Recorder
- USB cable
- Package box

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Series EDIC-mini Deni

EDIC-mini Deni A150 / A151 / A152 / A154

Opportunities and advantages

- The ability to use it as a flash drive
- It is determined directly in the PC. It does not require the installation of additional software and drivers
- Recording audio data in WAV format
- Maximum recording quality up to 24 bits and 32 kHz
- Support for microSD, FAT32 and exFAT file systems
- 4 timers to enable recording at the right time
- Voice Activation System (VAS)
- Linear and ring recording, or the so-called black box mode
- The voice recorder software allows you to configure the mode of operation and process recordings on personal devices running Windows, Mac, Linux, Android and other operating systems that support connecting external devices. Connect to your smartphone/tablet via an OTG cable (using the microSD-USB adapter included)
- Simplicity and accessibility of programming. In order to change the settings, you need to have any text editor on your PC. Or use the configurator located on the recorder
- Marking the name of the created audio files with the date and time, as well as the serial number and the mode in which the recording was performed
- Built-in real-time clock with calendar

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Series EDIC-mini Card +

EDIC-mini Card+ A141

Opportunities and advantages

- The recorder connects to a computer like a regular USB flash drive and works with any operating system (Windows, macOS, Linux, Android, etc.)
- You can also transfer recordings to your computer via a removable microSD
- The voice recorder combines the convenience of both internal and removable memory
- The voice recorder is controlled by editing a text configuration file and does not require the installation of special programs
- Main functions:

- recording audio data in WAV format with a sampling rate of up to 16kHz and a bit depth of up to 24 bits;
- memory is a quick-change microSD card with support for FAT32 and exFAT file systems;
- Built-in real-time clock with calendar;
- marking the name of the created audio files with the date and time, as well as the serial number and the mode in which the recording was performed;
- a digital signature of the recordings made, which allows you to guarantee the authenticity of the recordings, password protection of the recordings;
- 4 timers to enable recording at the right time (single, daily and daily with delayed start);
- voice activation system (VAS), linear and ring recording

Technical specifications

Case..... metal
Dimensions ..... 68*44*8 mm
Weight ..... 41 g
Li-Pol battery capacity ..... 600 mAh
Acoustic sensitivity ..... up to 15 meters
Recording time in 16 kHz/16 bit mode on a 32 GB microSD card:
11.5 full days of recording (277 hours)
Recording modes:
8kHz/8bit, 16kHz/8bit, 8kHz/16bit, 16kHz/16bit
Autonomy in 16 kHz/16 bit:
recording mode - 100 hours
in VAC standby mode - 1000 hours

Delivery set

- voice recorder EM Card+ A141
- USB cable
- 32GB microSD card
- microSD card reader
- packing box

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Digital voice recorder Soroka 10E

Opportunities and advantages

- An external microphone provides high-quality audio recording, both for long-distance and outdoor sound recording
- The ability to quickly replace batteries allows you not to waste time charging the battery
- It is not suppressed by ultrasonic suppressors

Technical specifications:

Working time (continuous recording)……. up to 240 hours on the built-in microphone
up to 155 hours on the external microphone
External microphone…….. included
Type of power supply…….. removable
Expert opinion for the court …….. no

Delivery set

- Voice recorder
- Memory Card micro SD/SDHC 32 GB
- External microphone (for Soroka 10E)
- 1.5V AAA batteries, 2 pieces (for Soroka 10E)
- 1.5V LR1 battery, 2 pieces (for Soroka 11E)
- Card Reader

Digital voice recorder Soroka 11E

Opportunities and advantages

- Practical model of small size and weight
- The ability to quickly replace batteries allows you not to waste time charging the battery

Technical specifications:

Working time (continuous recording)…. up to 236 hours
External microphone…….. it is impossible to connect
Type of power supply…….. removable
Expert opinion for the court …….. no

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Digital voice recorder Soroka 17E

Opportunities and advantages

- "Soroka-17E“ and "Soroka-18E" are one of the smallest models of "Soroka" voice recorders, light and thin
- They are characterized by stable operation when exposed to ultrasound
- Despite their small size, voice recorders provide high-quality recording of phonograms and are capable of continuous sound recording for up to 65 hours

Delivery set

- Voice recorder
- SDHC Memory Card micro SD/SDHC 32 GB Samsung EVO+
- Battery charging adapter
- USB cable for charging the recorder
- Card Reader

Digital voice recorder Soroka 18E

Technical specifications

Working time (continuous recording)... up to 65 hours on the built-in microphone
Type of power supply ..... built-in
External microphone ..... it is impossible to connect
Expert opinion for the court:
Soroka-17E ..... yes
Soroka-18E ..... no

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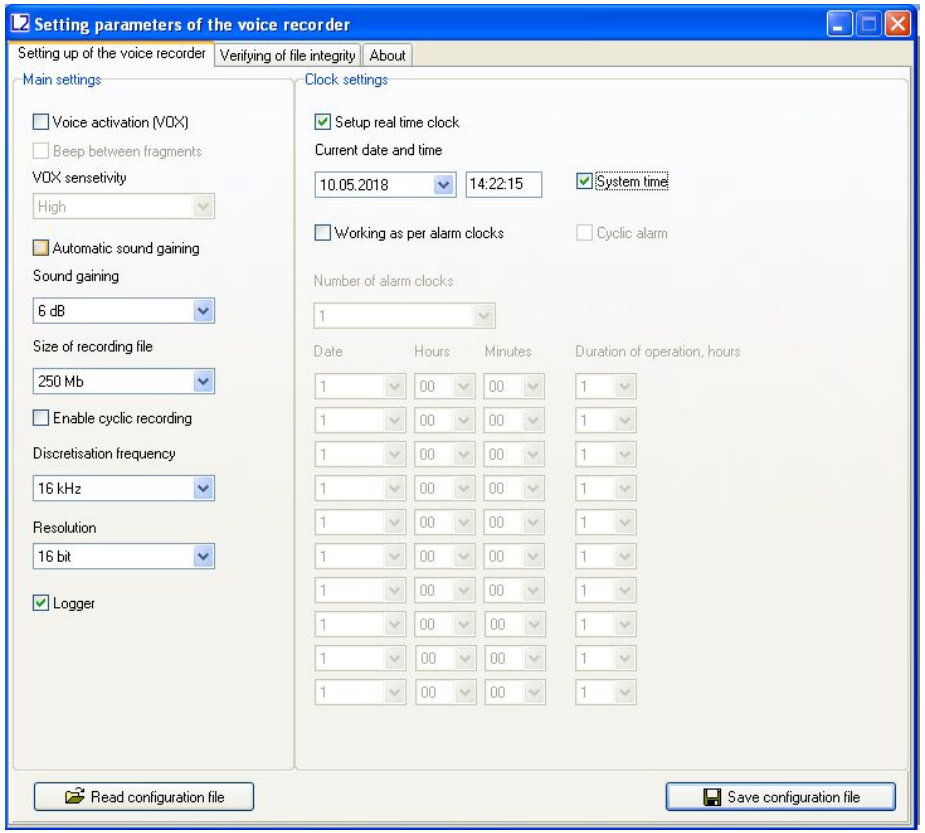
Digital voice recorder Soroka 16E

Opportunities and advantages

- “Soroka-16E” is a universal voice recorder model
- Recording time is up to 46 days without interruption
- It is characterized by stable operation when exposed to ultrasound
- Built-in batteries have a large capacity
- High-quality audio recording without signal's compression

Program window



Technical specifications

Working time (continuous recording)
on the built-in microphone up to 1122 hours,
on the external microphone up to 801 hours
Type of power supply…… built-in
External microphone…….. included
Expert opinion for the court …… no

Delivery set

- Voice recorder
- SDHC Memory Card 32 GB Samsung EVO+
- USB cable for charging the recorder
- External microphone 45 sm
- Card Reader

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Digital voice recorder Soroka 14E

Opportunities and advantages

- The ability to connect an external microphone allows you to use the recorder in various conditions
- A convenient tactile button allows you to turn on the voice recorder through your clothes
- The recording time of the «Soroka-14E» is up to five days without interruption
- Increased operation stability at ultrasound

Technical specifications

Working time (continuous recording):

up to 128 hours on the built-in microphone,
on an external microphone for up to 88 hours

Type of power supply…….. built-in

Expert opinion for the court …….. yes

Delivery set

- Voice recorder
- SDHC Memory Card 32 GB Samsung EVO+
- USB cable for charging the recorder
- External microphone 45 sm
- Card Reader

Digital voice recorder Soroka 15E

Opportunities and advantages

- Voice recorder“Soroka-15E” is characterized by a light and thin body
- It is possible to connect an external microphone
- The button is slightly recessed, this protects the recorder from accidental activation
- Increased operation stability at ultrasound

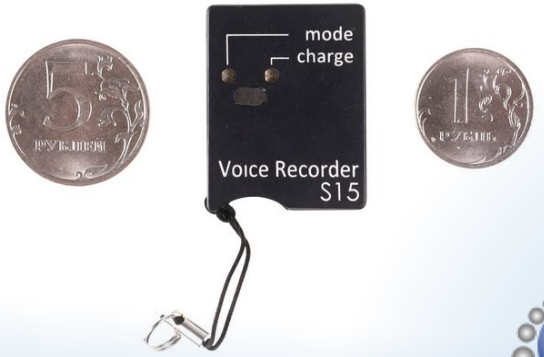
Technical specifications

Working time (continuous recording):

on the built-in microphone up to 83 hours
on the external microphone up to 59 hours

Type of power supply…….. built-in

Expert opinion for the court …….. no



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Digital voice recorders Series Soroka

Comparative characteristics

	14E	15E	16E	17E	18E	10E	11E
Case	steel	aluminum	aluminum	aluminum	steel	steel	steel
Dimensions, mm	28x23,6x10	33,3x26x5,3	80x37x8,3	26,5x26,8x5,2	24,3x14,2x9,4	51,3x14,5x16,2	36,7x14,2x17,7
Weight, g	15	8,7	47,1	6,2	7,5	31,6	25,3
Operation time	up to 128 h	up to 83 h	up to 1122 h	up to 65 h	up to 65 h	up to 240 h	up to 240 h
Power supply	rechargeable battery	rechargeable battery	rechargeable battery	rechargeable battery	rechargeable battery	Battery type LR03 1,5 V	Battery type LR03 1,5 V
Audio recording mode	mono	mono	mono	mono	mono	mono	mono
Microphone Sensitivity , m	12	12	12	12	12	12	12
Audiocodec, bit	8, 16, 20	8, 16, 20	8, 16, 20	8, 16, 20	8, 16, 20	8, 16, 20	8, 16, 20
Recording format	WAV	WAV	WAV	WAV	WAV	WAV	WAV
Dynamic range, dB	60	60	60	60	60	60	60
Sample rate, kHz	8, 16, 24, 32	8, 16, 24, 32	8, 16, 24, 32	8, 16, 24, 32	8, 16, 24, 32	8, 16, 24, 32	8, 16, 24, 32
Frequency band 8kHz/16kHz/ 24kHz/32kHz	80Hz-3,3kHz/ 80Hz-6,6kHz/ 80Hz-10kHz/ 80Hz-13,3kHz	60Hz-3,3kHz/ 60Hz-6,7kHz/ 60Hz-10kHz/ 60Hz-13,5kHz	60Hz-3,3kHz/ 60Hz-6,7kHz/ 60Hz-10kHz/ 60Hz-13,5kHz	80Hz-3,3kHz/ 80Hz-6,6kHz/ 80Hz-10kHz/ 80Hz-13,3kHz	80Hz-3,3kHz/ 80Hz-6,6kHz/ 80Hz-10kHz/ 80Hz-13,3kHz	60Hz-3,3kHz/ 60Hz-6,7kHz/ 60Hz-10kHz/ 60Hz-13,5kHz	80Hz-3,3kHz/ 80Hz-6,6kHz/ 80Hz-10kHz/ 80Hz-13,3kHz

Digital voice recorders Series Soroka

Series opportunities and advantages

- Due to the miniature size, light weight removable microSD card the devices of that series are very mobile and easy to use
- The recorders' microphone is distinguished by high sensitivity and low noise level providing professional audio recording
- Recorders are controlled with one button and 2 LEDs
- With the help of special software the user can easily adjust the quality and time of recording, enable and configure professional functions depending on the surrounding conditions and in accordance with the requirements
- Automatic and Manual Gain Control (AGC) enabling it to control recording sound level. AGC makes it possible to perfectly record very loud sounds and amplify silent ones
- Connecting a voice recorder from 5-28V, for example, to the internal power supply in the car
- Extremely low power consumption: device is able to operate in record mode up to 28 days with an external accumulator
- Function of digital signature, allowing it to determine the authenticity of record
- Encrypting records with a password
- Built-in clock, calendar, alarm clock, VAS
- Event logger (locking on, off, low battery charge, start and stop recording, etc.)

General specifications

Function of work as an alarm clock ..... yes
(up to 10 alarms or daily cyclic alarm clock)
File encryption function ..... yes
The digital signature of files function ..... yes
Voice operated switch (VOX) mode ..... yes
Connecting an external high-capacity battery..... 1.8A/h
Connection to external power supply..... 12V
The presence of a cyclic recording mode..... yes
Three operating modes:

recording when the power button is pressed
recording according to a schedule
recording by sound activation

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ST 111 Professional RF detector

Purpose and advantages

- ST111 is designed for detecting and locating of radio transmitting bugging devices, such as: radio microphones, Including Burst transmitters, and devices with frequency hopping technology; GPS TRACKER; GSM bugs; wireless video cameras, stethoscopes; unauthorized used WLAN and DECT devices
- Principle of operation of ST 111 is based on broadband detection of electrical field
- ST 111 operates in two main modes: SEARCH and MONITOR. Additional modes include: LOG VIEW, OSCILLOSCOPE and RECORDER.
- Key features:

- Displaying of identified signals of GSM (2G), DECT, WLAN (2.4GHz)
- Separate indication of analog and pulse signals
- Frequency meter
- Oscilloscope
- Timing diagram
- Special software “ST110 ANALYZER”
- Firmware update via internet
- 24/7 monitoring
- Log of events

Technical specifications:

Overall dimensions main unit ..... 90 X 54 X 21 mm
Gross weight ..... 0,25 kg
Consumption current, max ..... 110 mA
Power Supply ..... Built-in Li-Pol Battery 3.6V
Frequency measurements accuracy ..... 0.005 MHz
Frequency range 1 ..... 50-2500 MHz
Frequency range 2 ..... 2500-7000 MHz
Dynamic Range of indication range 1..... 55 dB
Dynamic Range of indication range 2 ..... 30 dB
Threshold sensitivity ..... 75 (50MHz) dBm
70 (1500MHz) dBm
50 (2500MHz) dBm
Frequency range of frequency meter ..... 50-2500 MHz
Sensitivity of frequency meter ..... 35 (50 MHz) dBm
50 (500 MHz) dBm
20 (2500 MHz) dBm

Delivery set

- Main unit
- RF antenna
- USB cable
- Power supply/Charger
- USB flash drive with software and user's guide

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Miniature audio recorders, detectors & TSCM

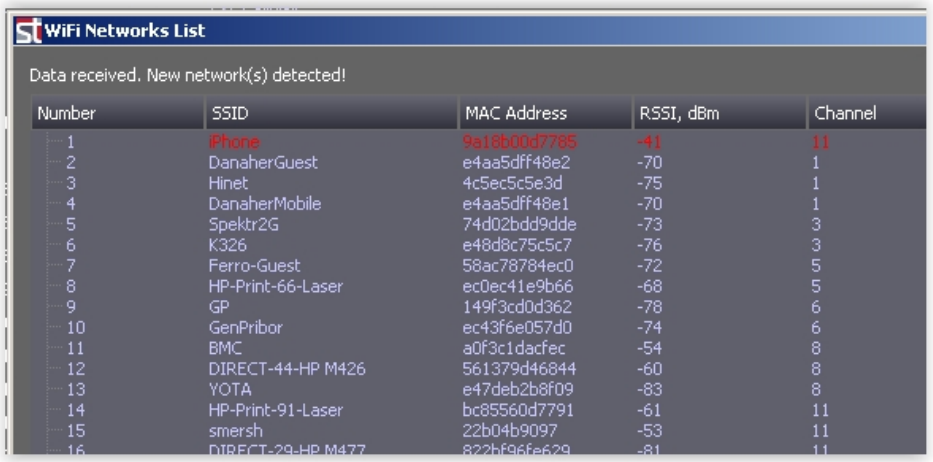
ST 167W5 Search receiver

Purpose and advantages

- ST 167W5 is a modification of ST167 "Betta“
- ADDED THE ABILITY TO:

  Analyze WLAN networks in the 2.4 and 5GHz ranges (802.1 a, b, g, n) with the display of access points, MAC addresses, channel numbers and signal strength

Displaying list of access points (WLAN 2.4, 5GHz 802.1a,b,c,n), their names, MAC addresses, used channel and signal strength:



Number	SSID	MAC Address	RSSI, dBm	Channel
1	iPhone	9a18b00d7785	-41	11
2	DanaherGuest	e4aa5dff48e2	-70	1
3	Hinet	4c5ec5c5e3d	-75	1
4	DanaherMobile	e4aa5dff48e1	-70	1
5	Spektr2G	74d02bdd9dde	-73	3
6	K326	e48d8c75c5c7	-76	3
7	Ferro-Guest	58ac78784ec0	-72	5
8	HP-Print-66-Laser	ec0ec41e9b66	-68	5
9	GP	149f3cd0d362	-78	6
10	GenPribor	ec43f6e057d0	-74	6
11	BMC	a0f3c1dacfec	-54	8
12	DIRECT-44-HP M426	561379d46844	-60	8
13	YOTA	e47deb2b8f09	-83	8
14	HP-Print-91-Laser	bc85560d7791	-61	11
15	smersh	22b04b9097	-53	11
16	DIRECT-29-HP M477	822bf96fe629	-81	11

Technical specifications

Overall dimensions main unit ..... 90 X 54 X 21 mm
PC interface ..... USB 2.0
Average current consumption ..... 500 mA
Frequency measurements accuracy ..... 0.01 MHz
Average dynamic range ..... 65 dB
Passband ..... 1, 8, 20 MHz
Frequency range ..... 25-6000 MHz
Maximum current of relay contacts ..... 100 mA
Maximum resistance of closed raelay contacts ... 25 Ohm
Threshold sensitivity ..... 75 (1000MHz) dBm
55 (5000MHz) dBm
Power Supply ..... Built-in Li-Pol Battery
3.6V (2.2A/h)

Delivery set

- Main unit
- RF antenna
- USB cable
- Power supply
- USB flash drive with software and user's guide

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ST 167 "Betta" Search receiver

IS DESIGNED TO DETECT AND DETERMINING THE LOCATION OF RADIO TRANSMITTING DEVICES OF COVERT RECEPTION INFORMATION

Purpose and advantages

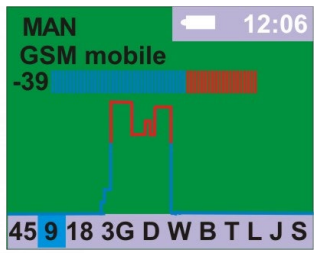
- Detection of analog and digital signals in 50 – 6000 MHz frequency range
- Sound control (AM and FM demodulation)
- Special algorithms for identification of CDMA 450, GSM, 3G, 4G, 5G, DECT, WLAN2.4, 5GHz and BLUETOOTH
- 24 hour monitoring with the creation of a database of events. Work on schedule
- Jammers detection special mode, including GPS/GLONASS
- SMS detection special mode
- Indication of the level of GSM, 3G and 4G base stations
- Separate indication of channels for 3G, 4G, DECT, WLAN 2.4 and 5GHz
- Multiple range settings
- Special software “ST167 ANALYZER”
- Firmware update via internet
- Extremely small dimensions for this type of device

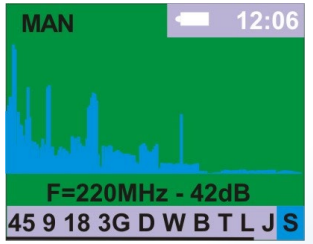
Delivery set

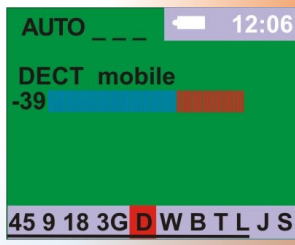
- Main unit
- RF antenna
- USB cable
- Power supply
- USB flash drive with software and user's guide

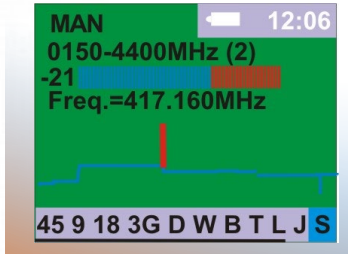
Technical specifications:

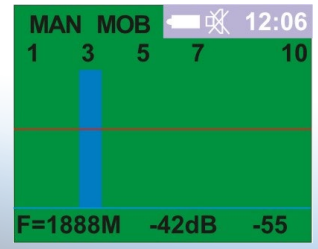
Overall dimensions main unit	90 X 54 X 21 mm
PC interface	USB 2.0
Average current consumption	450 mA
Frequency measurements accuracy	0.01 MHz
Average dynamic range	65 dB
Passband	2, 5, 10 ,15, 20 MHz
Frequency range	50-6000 MHz
Threshold sensitivity	90 (1000MHz) dBm 70(5000MHz) dBm
Power Supply	Built-in Li-Pol Battery 3.6V (1.8A/h)

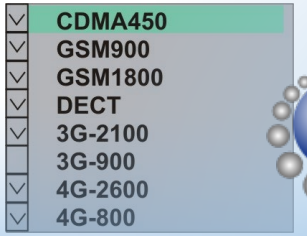












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Detector of concealed video cameras Arcane Sel Pro

Purpose and advantages

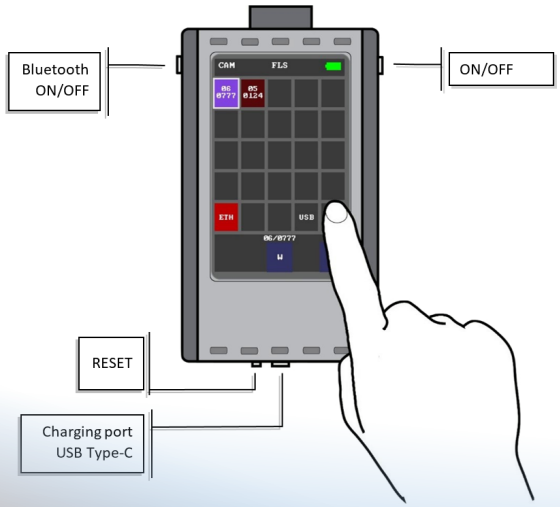
- ARCANE SEL PRO digital hidden video cameras detector is designed for remote detection and localization of powered hidden video cameras which are installed outside, indoors, concealed as objects or body-worn
- The detector has the ability to communicate via Bluetooth with a smartphone to control and transmit information to it, which allows you to instantly detect the presence of nearby (from 1 to 2 meters) hidden video cameras and search for them unnoticed by others
- ARCANE is able to detect both analogue and digital cameras regardless of concealment and video transmission methods
- Types of devices and signals detected by the device: Analog video cameras CCIR, CVBS (PAL, NTSC); Digital video cameras AHD, CVI, TVI, PVI; Digital IP video cameras and devices (Ethernet); Digital USB video cameras (UVC, OTG); Video recorders with USB flash memory; Digital video recording devices on SD memory cards; Digital video recorders (DVR)

Delivery set

- ARCANE SEL PRO + Cylindrical antenna
- USB cable – USB Type-C
- Stylus
- Software on USB flash drive
- User Manual
- Hard case

Technical specifications

Dimensions (excluding antenna) ..... 80 x 130 x 20 mm
Weight with antenna ..... < 300 g
Antenna ..... 127 mm, Ø=16 mm
Types of detectable digital signals .... ETH; USB; FLH
Number of images in the memory ... 16
Power supply ..... 5 B/2 A USB Type-C
Power supply Battery ..... Li-Pol battery
Detection time (average) ..... 2 sec
Analysis time (average) ..... 5 sec
Continuous battery life ..... > 2 h
Bluetooth Data Transfer protocol .... BLUE 5.0



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Detector of Hidden Television Surveillance Systems Granat-2

Purpose and advantages

- Compact portable device for individual use is designed for detection small-size video surveillance, camouflaged in the interior items, clothing, household goods, handbags, cases and etc
- Device allows detecting running on TV-cameras equipped with microlenses (incl. pin-hole)
- Device provides probing radiation with white LED (RGB)
- RGB LED contains 3 LEDs of red, green and blue colors in one case. A combination of three colors allows to scan in the entire visible wavelength range up to IR radiation
- GRANAT-2 has dioptric eyepiece adjustment ±5 dioptres and 2 modes of operation (constant and impulse). These features allow to increase probability and accuracy of detection secret video cameras in comparison with usual surveillance detectors

Delivery set

- GRANAT-2 device
- Battery CR123A
- Plastic Case

Technical specifications:

Dimensions ..... 80 x 70 x 45 mm
Weight ..... up to 250 g
Angle of the field of observation ..... 8°
Zoom 4x
Detection range of optical objects ..... 2±0,1 m ÷ 25±0,5 m
The time for entering the operating mode ..... 5 sec
Wavelength ..... 625/525 nm
Type of built-in highlight ..... Light emitting diode
Angle of highlight area ..... 18°
Operation time ..... at least 10 hours
Degree of protection IP65
Operating temperature range..... -10°C...+50°C

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Professional hidden camera detector SEL-122B "Oblik-2"

Purpose and advantages

- "OBLIK-2" is a hidden camera lens finder capable of detecting any type of video camera lens (hidden or camouflaged on clothes, in objects or built into interior, including cameras with pin-hole lens) at distances up to 50 meters
- OBLIK-2 operation principle is based on causing camera lens to produce a visible glint by flooding it with bright LED light that causes the reflection
- Device is designed around a high-end binoculars set with adjustable magnification, wide focus range and high light transmission lens
- The use of two different light sources in the green and red ranges of the spectrum allows you to find hidden video cameras protected by special "band-pass" filters
- The device is controlled with just one button

Delivery set

- Oblik-2 detector
- Shoulder strap
- Battery charger
- USB cable
- Transport bag
- User manual, passport

Technical specifications

Dimensions (excluding antenna): ..... 120 x 110 x 65 mm
Weight with antenna ..... <= 450 g
Detection range
(depends on general light conditions) ... > 50 m
Magnification ..... from 6.5x
Number of LEDs ..... 2 pcs
Operating modes ..... continuous, variable, pulse
Control indication ..... light (LED) and sound (buzzer)
Power supply ..... Li-pol battery
Continuous operation time ..... up to 5 hours
Charging port ..... USB Type-C

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Detector of concealed video cameras Optic-2

Purpose and advantages

- "Optic-2" is a professional hidden camera detector designed to detect and locate hidden or camouflaged camcorders and pinhole cameras, regardless of their status (on/off)
- The reverse reflection from hidden camera lenses will be seen thru Optic-2 oculars as a green or red dots
- Built-in battery allows not to worry about battery cells

Delivery set

- Charger
- Strap
- Transport bag
- Manual, passport
- Built-in battery Li-ion 3,7 V, 800-1200mA

Technical specifications

Dimensions …… 125 x 85 x 65 mm
Weight…… 450 g
Detection range ……. 0,5 – 50 m
Angle of view …….. 7,5 degrees
Magnification …….. 6.5x
Focus range …….. 0.5 m to ∞
Mode ……. - continuous green
- continuous red
- pulse green
- pulse Red
- pulse red-green
Backlight colour …… green, red, red/green
Operating time ……. in impulsive mode at least 4 hours
in continuous mode: not less than 6 hours

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Frequency and Power Meter MFP-8000

Purpose and advantages

- The MFP-8000 is designed to measure the frequency and intensity of a radio field in the frequency range from 100 kHz to 8 GHz
- It can be used in conducting search operations, setting up radio transmitting devices and monitoring the air
- In the "watchman" mode, it monitors the level and frequency of the signal, issues an alarm warning when the set threshold is exceeded
- It can measure power of the input signal within a level range from -50dBm to +30dBm
- It can automatically tune radio receivers and spectrum analyzers to the measured signal frequency via a built-in interface (option, ordered separately)
- It can utilize acoustic feedback mode during search work
- It supports surveillance mode when it responds to signals with a power level exceeding a specified threshold

Delivery set

- MFP-8000
- Antenna A-1; Antenna A-2
- N-BNC adapter
- RS-232 interface cable
- Charger
- User Manual; Certificate
- Package box

Technical specifications

Dimensions ..... 115 x 70 x 27 mm
Weight ..... <= 300 g
Dynamic range of power level measurement 90dB
(-60dBm...+ 30dBm)
Accuracy of power level measurement ..... ± 0.5dB
Display ..... LCD, 4 lines
Sensitivity for frequency measurement:
-45dBm (1.26mV) for the frequency range (300-6000) MHz
12,68mV (-25dBm) for the ranges (0.1- 0.3) MHz
and (6000-8000) MHz
Power supply ..... a built-in Li-Ion battery
3.6 W / 1.95 A/h
Operating time from the built-in Li-Ion battery ... at least 8 hours
Switchable frequency detection accuracy ..... 1 Hz, 10 Hz,
100 Hz, 1 kHz

Wireline analyzer ST 301 "SPIDER"

Purpose and advantages

- The Analyzer is designed to detect and localize eavesdropping devices that are galvanically connected to power mains and low-current cables
- In the ST 301, passive and active modes of operation are used to detect enabled, switched off, or faulty eavesdropping devices
- Functionally the Analyzer consists of four components (DEVICES):

1. LOW FREQUENCY AMPLIFIER (LFA)
2. WIRE RECEIVER (WR)
3. NON-LINEAR JUNCTION DETECTOR (NLJD)
4. REFLECTOMETER (REF)

- Only one channel can work at a time
- Every CHANNEL operates in certain MODES
- Every MODE has a set of search FUNCTIONS

Technical specifications

Dimensions ..... 165 x 98 x 40 mm
Weight..... 470 g
Power consumption ..... < 1 W
Operating time
at the max power consumption ..... > 3 hour
LFA: Frequency range ..... 20 – 25000 Hz
Form of representation of a signal ..... Oscillogram, Spectrogram
WR: Frequency range, ... 0.1 – 180 MHz
Time of scanning of all range ..... 0.3 – 1 sec
Min level of detected signal
in AUTOMATED mod ..... -60 dBm
Demodulation ..... AM, FM
Data representation form ..... Spectrogram, Oscillogram, Table
NLJD: Level (amplitude) of the probing signal ..... ±14 V
Frequency of the probing signal ..... 60 Hz
Separate indication of even and odd harmonics ..... yes
Minimum detectable level of non-linear distortion ... 0.1 %
REF: Range of distances ..... 3 – 150 m
Error of measurements, ... ± 0,6 m
The ability to work on cables under voltage ..... no

Multifunctional detection device ST 500 "PIRANHA"

Purpose and advantages

The multifunctional detection device ST 500 "PIRANHA" is intended for the detection and location of eavesdropping devices.

Functionally, the device consists of four detection channels.

Channels for the detection of wireless eavesdropping devices:

· SELECTIVE HF DETECTOR is intended for the detection of analog and digital wireless (utilizing GSM, LTE, Bluetooth, or WiFi) eavesdropping devices operating in the frequency range 20 - 6000 MHz

· IR DETECTOR is intended for the detection of IR transmitters (eavesdropping devices using the infrared range for transmissions);

Channels for the detection of wired eavesdropping devices:

· WIRED RECEIVER is intended for the detection of high-frequency signals from eavesdropping devices that transmit information via electric mains and low current lines in the frequency range 100 kHz – 180 MHz

· LOW FREQUENCY AMPLIFIER is intended for the detection of LF signals from eavesdropping devices.

Technical specifications

Dimensions ……165 x 100 x 40 mm
Weight…… 470 g
Power consumption …… < 1 W
Time of continuous operation at max power …. > 4 hrs

Selective HF Detector:

Operative frequency range…….. 20-6000 MHz
Passband…… 1 or 20 MHz
Rate of scanning …… 18 GHz/sec
Minimum detection level…….. - 70 dB

IR Detector:

Spectral range …….. 0.75…1.1 µm
Detection passband …….. 5 MHz
Field-of-view angle…….. ±20 degrees

Wired Receiver:

Operative frequency range …….. 0.1-180 MHz
Whole range scanning time …….. 2 sec
Minimum detection level …….. -50…-75 dBm
Demodulation type …….. AM, FM
Input filter passband …….. 180 kHz
Maximum voltage on the circuit …….. 250(AC), 60(DC) V

Low Frequency Amplifier:

Gain…….. 1,2,5,10,20,50,100 times
Frequency range …… 20 – 25000 Hz
Bias voltage range, V … +30, -30

RAKSA iDet Selective RF Detector

Purpose and advantages

- RAKSA iDet Selective RF Detector can be used to detect and locate in near field a wide variety of radio transmitters used for secret access to information
- RAKSA iDet detects cellular and wireless signals: GSM 850/900E/1800/1900; UMTS 850/900/1800/1900/2100; 4G; Wi-Fi, Bluetooth, DECT; Wireless video cameras; Radio transmitters with analog modulation (AM, FM, PM); Radio transmitters with digital modulation and continuous carrier (FSK, PSK, etc.); Radio transmitters with wideband modulation up to 10 MHz bandwidth
- The cycle time for scanning and analyzing all digital and analog signals does not exceed 3 seconds
- The RAKSA iDet Selective RF Detector can operate in security, survey, search, spectrum subtraction search and digital signal monitoring modes
- The interface languages for the export version are English, German, French, Italian, Spanish, Polish, Czech

Technical specifications

Dimensions ..... 77 x 43 x 18 mm
Weight..... 35 g
Frequency band..... 40-3800 MHz
Dynamic range.....50 dB

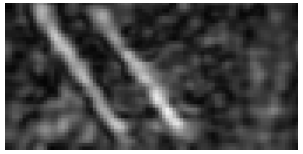
Delivery set

- RAKSA iDet Selective RF Detector
- Charging Device
- User Manual

Holographic Subsurface Radar RASCAN-5/7000

Purpose and advantages

- RASCAN-5/7000 is a lightweight, portable holographic radar system intended for sounding structural components of buildings (brickwork, wall panels, cast in place concrete and reinforced concrete, etc.) for detection of buried objects (wiring, reinforcement, voids, various kinds of discontinuities and foreign bodies)
- RASCAN-5/7000 produces plan view gray scale images of the subsurface objects using five simultaneous frequencies
- The images can be focused by special algorithms for improving their resolution
- RASCAN-5/7000 can be applied in the following areas: counterintelligence activities for detecting of bugging devices; operative inquiry activities of law-enforcement agencies; surveying of building structures for determining the position of defects, reinforcement, voids and other heterogeneities; inspection of the objects of cultural heritage



Two reinforcement rods in concrete
(depth is 11 cm, distance between rods is 8 cm,
frequency is 6.6 GHz)

Word "RASCAN" cut from aluminum foil,
under 6 cm of foamed concrete
(frequency is 6.6 GHz)

Technical specifications

Dimensions ..... 157 x 200 x 63 mm
Control unit ..... 95 x 148 x 119 mm
Weight ..... 1,9 kg
Maximum sounding depth (depends on medium properties):
in concrete ..... 75 mm
in brick wall ..... 150 mm
in wall board, in wood ..... 180 mm
Transmitter power ..... < 10 mW
Power source ..... < 3 W
Supply voltage AC / DC .....100-230 (50-60 Hz) / 12 V

Delivery set

- Head
- Control unit
- Straight sounding head cap
- Angular sounding head cap
- Cable for connecting head to control unit
- Cable for connecting control unit to PC
- Power supply unit
- Mating part for external +12VDC power supply socket (connect internal electrode to the positive terminal of the power source)
- Software CD
- User manual

Zaslon-M Explosive Detector

Purpose and advantages

- ZASLON-M mobile explosive detector is intended for real-time detection of explosives, both indoors and outdoors, as well as trace amounts of nitro-containing explosives on hands, documents and other objects that were in contact with explosives provided temperature ranges are carefully maintained
- The device also ensures measurement quality in the presence of foreign substances in the air
- ZASLON-M detects such substances as ammonium nitrate, dinitrotoluene, trinitrotoluene, trinitro-resorcinol (picric acid), dinitronaphthalene, dimetyldinitrobutane, ethylene-glycoldinitrate, nitroglycerin, tetranitropentaerytrite, pentaerythritetranitrate, hexogen, octogen, benzofuroxan, tri-peroxide acetone, hexamethylenetriperoxidediamine, industrial explosives based on hexogen, industrial explosives based on octogen, simteks, octol, ammonite, ammonal, nitropowder, etc.
- Application area:
  - monitoring of explosives vapor content in the air of enterprise workspace;
  - border and customs check points;
  - defence facilities;
  - security of mass events;
  - transport security;
  - use by law enforcement bodies;
  - prevention of terrorist attacks with explosives use

Technical specifications

Dimensions ..... 41 x 19,2 x 14 cm
Weight with batteries ..... 2 kg
Explosive vapours measurement limit ..... at least TNT 10^{-11} g/cm^3
Distance from the object ..... up to 250 mm
Power supply:
- from AC adapter with a frequency of 50/60 Hz, 100 - 240 V
- from a battery with an output voltage of at least 12 V

Continuous operation time ..... at least 8 h
Detection time ..... no more than 2 sec
Time to enter operating mode ..... no more than 15 sec
Climatic operating conditions:
- operating temperature range from minus 0 to plus 40 ° C;
- relative air humidity of not more than 85% at a temperature of plus 25 ° C ± 1 ° C

Delivery set

- ZASLON-M detector
- Photoluminescent Sensor Kit, 3 pcs
- Shoulder Strap
- Operation Manual
- Charger
- Case

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Non-linear junction detector Cayman-401

Purpose and advantages

- Non-linear junction detector Cayman ST-401 is a compact modification of base model ST-400
- The key difference is the lack of telescopic rod. This model is especially helpful when working in confined space, checking small cargo and mail, as well as inspection of people
- Using this non-linear junction detector operator is able to distinguish natural semiconductor from the artificial one (metal, corrosion, metal-oxide-metal structure)
- Updated model has beneficial differences: modernized antenna, which increase detector selectivity; reduced weight and overall dimensions of the device; simplified system of control and indication; use of common power supply batteries; more ergonomic design

Delivery set

- ST 401 CAYMAN non-linear junction detector
- Rechargeable battery 3,7V of type 18650, 4 ps
- Power supply charger
- Charging unit
- Headphones
- Semiconductor simulator (red marking)
- Metal-oxide-metal structure simulator (blue marking)
- User manual
- Transportation shockproof package

Technical specifications

Size (LxWxT)..... 22 x 13 x 9,5 cm
Weight..... 0,85 kg (with battery)
Frequency band..... 2-3 GHz
Operation time..... 2-3 hours
Battery charging time..... up to 3 hours
Case..... plastic

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Non-linear junction detector Cayman-400

Purpose and advantages

- ST-400 CAYMAN is designed for detection and locating of hidden electronic bugs, mobile phones, SIM-cards and other electronic devices.
- Cayman 400 allows detecting and precise localizing both operating devices and powered off.
- Using this non-linear junction detector, an operator is able to distinguish natural semiconductor from the artificial one (metal, corrosion, metal-oxide-metal structure)
- The main distinguishing feature of the CAYMAN detector is the use of a multi-frequency emission mode, which allows you to get a number of advantages.
- Increased probability of detecting electronic devices behind partially shielded surfaces (for example, a "chain link" grid)
- The ability to identify detected objects in audio mode

Technical specifications

Size (LxWxT)……1500 x 25 x 13 cm (telescopic arm and elbow rest pulled out completely)
Weight…….. 1.75 kg (with battery)
Frequency band……. 2-3 GHz
Operation time…… up to 3 hours

Delivery set

- ST 400 CAYMAN non-linear junction detector
- Rechargeable battery of type 18650 - 4 pcs
- Power supply charger
- Charging unit
- Headphones
- Semiconductor simulator (red marking)
- Metal-oxide-metal structure simulator (blue marking)
- User manual
- Transportation shockproof package

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The “Lornet Star” set can include up to three interchangeable antenna modules operating in different frequency ranges. This approach allows you to realize the advantages of each of the frequency ranges used

Lornet Star //08 - with antenna module for 800 MHz (all-weather and relatively low attenuation of signals in dense medium (brick, concrete, etc.))
Lornet Star //08c - with antenna module for 800 MHz with spectrum analyzer
Lornet Star //24 - with antenna module for 2400 MHz (opportunity to detect SIM cards and small (about 1 cm^2) semiconductor devices)
Lornet Star //24c - with antenna module for 2400 MHz with spectrum analyzer
Lornet Star //36m - with antenna module for 3600 MHz (provides spatial selection, which facilitates sweeping operations in premises containing legal electronic devices)

Antenna module	08	08c	24	24c	36m
Frequency of probing signal in the range	800 MHz	800 MHz	2400 MHz	2400 MHz	3600 MHz
The maximum power of the probing signal (max. // average):					
Pulse mode	10W//230mW	10W//230mW	10W//230mW	10W//230mW	18W//112mW
Continuous mode	300mW	300mW	300mW	300mW	-
Pulse mode with low off-duty factor (CW)	-	-	-	-	6W//375mW
Receiver sensitivity	-110dBm(-140dBmW)				
Probing signal power adjustment range	20dBm				
Receiving path dynamic range	24dBm				
Battery life at maximum power in a pulse (continuous) mode	3,0h (1,5h)	2,5h (1,5h)	3,0h (1,5h)	2,5h (1,5h)	2,5h (1,5h)
Module dimensions	40x20x7cm	40x20x7sm	40x20x7cm	40x20x7cm	40x20x20cm
Telescopic rod sizes	54x4x4 (86x4x4) cm				

	LORNET STAR 24c/36m	LORNET STAR 08/24c	LORNET STAR 08/24c/36m
Detection in humid environment	★★	★★★★	★★★★
Detection in an open space	★★★★	★★★	★★★★
Detection of small-sized electronics	★★★★★	★★★★★	★★★★★
Indoor detection	★★★★★	★★★★★	★★★★★

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Popular LORNET STAR sets

LORNET STAR 24c / 36m

LORNET STAR 08 / 24c

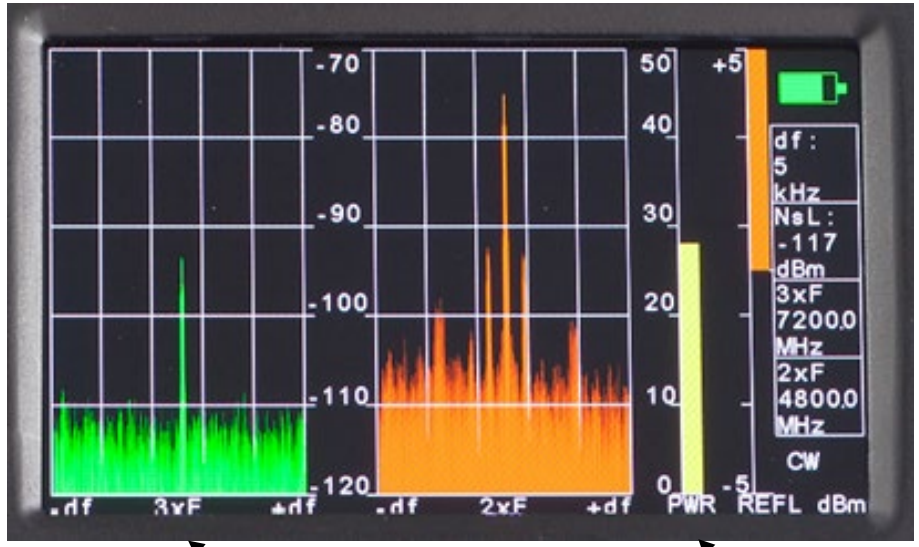
LORNET STAR 08 / 24c / 36m

All LORNET STAR non-linear junction detectors have a universal control knob. The presence of a removable telescopic rod allows the operator to easily turn the device from inspection to detection mode and back. Depending on the operation conditions, the antenna module simply changes, which allows you to find the most effective solution for locating semiconductors in various application conditions.

Graphical LED pannel

Spectrum of re-emitted signal of 2nd harmonic

Level of probing signal re-emitted by the object in dBm



Spectrum of re-emitted signal of 3rd harmonic

Level of probing signal power in dBm

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Miniature audio recorders, detectors & TSCM

Non-linear Junction Detector Lornet Star 36m

Purpose and Advantages

- Locating of electronic components and metal striking elements in the 16 degree sector and at a distance of up to 6 meters.
- Indication of the target location using a built-in laser pointer.
- Detection of small electronic components such as SIM cards and electronic components in shielded enclosures.
- An additional battery, which has charging time significantly shorter than the discharge time allows, if necessary, round-the-clock operation of the device.
- Maximum efficiency of locating for any electronic devices in the most difficult conditions when used with other interchangeable Lornet Star antenna modules.
- Lornet detector successfully detects any electronic devices, powered or switched off.

Delivery set

- Replaceable antenna module "Lornet Star 36m“
- A remote control handle with a built-in battery container
- A removable telescopic rod Lornet Star
- Removable (Li-Ion) rechargeable batteries 12V (2pcs.)
- Batteries charging container
- Batteries charging adapter (220V)
- Headsets
- Soft storage bag
- User manual

Technical specifications

Size (LxWxT).....47/137 (w/ extension rod) x 20 x 14 cm
Weight..... 1000 g (without rod)
Frequency band..... 3600 MHz
Operation time.....Li-ion battery at max. output power (pulse/continuous) up to 2,5/1,5 h

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Non-linear Junction Detector Lornet Star 24c

Purpose and Advantages

- Locating of miniature electronics such as SIM cards, RFID tags, and GPS trackers, as well as electronic bugs in buildings and vehicles, such as wireless microphones, digital audio recorders, mobile phones.
- The Lornet Star 24c model features a built-in spectrum analyzer of the 2nd and 3rd harmonics for visual recognition of electronic components from false semiconductors.
- An additional battery, witch has charging time significantly shorter than the discharge time allows, if necessary, round-the-clock operation of the device.
- The CW mode can be used to identify transmitting analog radio microphones.
- Compatible with the nonlinear detectors of the Lornet Star set.
- Lornet detector successfully detects any electronic devices, powered or switched off.

Technical specifications

Size (LxWxT).....50/149 (w/extension rod) x 17 x 5,5 cm
Weight..... 800 g (without rod)
Frequency band..... 2400 +/- MHz
Operation time.....Li-ion battery at max. output power (pulse/continuous) up to 3,0/1,5 h

Delivery set

- Replaceable antenna module "Lornet Star 24c"
- A remote control handle with a built-in battery container
- A removable telescopic rod Lornet Star
- Removable (Li-Ion) rechargeable batteries 12V (2pcs.)
- Batteries charging container
- Batteries charging adapter (220V)
- Headsets
- Soft storage bag
- User manual

Non-linear Junction Detector Lornet Star 24

Purpose and Advantages

- The lightest professional non-linear junction detector, that perfectly fits for electronics locating and personal inspection.
- Locating of miniature electronics such as SIM cards, RFID tags, and GPS trackers, as well as electronic bugs in buildings and vehicles, such as wireless microphones, digital audio recorders, mobile phones.
- In the inspection configuration, the detector design resembles a metal detector and is convenient for inspection of natural persons.
- Compatible with the non-linear detectors of the Lornet Star set.
- An additional battery, which has charging time significantly shorter than the discharge time, allows, if necessary, round-the-clock operation of the device.
- Lornet detector successfully detects any electronic devices, powered or switched off.

Delivery set

- Replaceable antenna module "Lornet Star 24"
- A remote control knob with a built-in battery container
- A removable telescopic rod Lornet Star
- Removable (Li-Ion) rechargeable batteries 12V (2pcs.)
- Batteries charging container
- Batteries charging adapter (220V)
- Headsets
- Soft storage bag
- User manual

Technical specifications

Size (LxWxT)..... 47/146 (w/extension rod) x 10 x 5,5 cm
Weight..... 700 g (without rod)
Frequency band..... 2400 +/- MHz
Operation time..... Li-ion battery at max. output power (pulse/continuous) up to 3,0/1,5 h

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Non-linear Junction Detector
Lornet Star 08 / Lornet Star 08c

Purpose and Advantages

- Reliable and easy-to-operate non-linear junction detector for locating medium-sized electronics components (radio microphones, audio recorders, etc.).
- Detection of electronic devices in damp rooms, inside wet soil and vegetation, inside concrete surfaces.
- Compatible with 2400 and 3600 MHz antenna modules of the Lornet-Star set.
- An additional battery with charging time significantly shorter than the discharge time allows, if necessary, round-the-clock operation of the device.
- Lornet detector successfully detects any electronic devices, powered or switched off.
- The Lornet Star 08c model features a screen with a built-in spectrum analyzer of the 2nd and 3rd harmonics.

Technical specifications

Size (LxWxT)……. 50 /149 (w/extension rod) x 18 x 6 cm
Weight…… 1000 g (without rod)
Frequency band……. 800 MHz
Operation time…… Li-Ion battery at max. output power (pulse/continuous) up to 3,0/1,5 h

Delivery set

- Replaceable antenna module "Lornet Star 08“ or “Lornet Star 08c”
- A remote control knob with a built-in battery container
- A removable telescopic rod Lornet Star
- Removable (Li-Ion) rechargeable batteries 12V (2pcs.)
- Batteries charging container
- Batteries charging adapter (220V)
- Headsets
- Soft storage bag
- User manual

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Non-linear Junction Detector Lornet-0836

Purpose and Advantages

- The detector combines the advantages of NLJDs operating at both 800 MHz and 3600 MHz when searching for electronic devices and metal striking elements.
- Detection (in the 800 MHz range) of electronic devices in rooms with concrete walls, in open spaces, in soil and vegetation, including high moisture conditions.
- Detection (in the range of 3600 MHz) of metal striking elements (up to 10 meters) in suspicious objects, bags, things with accurate locating of the search object.
- A dual-band nonlinear locator in open space detects a target semiconductor in a wide sector of 110 degrees, with the following determination of the target location in the 16 degree sector.
- Lornet detector successfully detects any electronic devices, powered or switched off.

Technical specifications

Size (LxWxT)…… 31 x 31 x 28 cm
Weight…….. 1,4 kg
Frequency band……. 800MHz +/- 3600MHz +/-
Operation time…… 2,5h in pulse mode
1,5h in continuous mode

Delivery set

- R-T unit with a control knob
- 2 removable (LI-ION) rechargeable batteries (3.6V)
- Battery charging container
- Battery charging adaptor (220V)
- Wireless headset and receiver
- AC adapter for the receiving device (220V)
- Soft storage bag
- User manual

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Non-linear Junction Detector Lornet-36

Purpose and Advantages

- Distant locating of electronic devices and metal striking elements in rooms and open spaces with accurate locating of suspicious objects.
- Locating of miniature electronics such as SIM cards, RFID tags, and GPS trackers.
- Locating of electronic components and metal striking elements in the 16 degree sector.
- Detection distance of metal striking elements is up to 10 meters.
- Indication of the target location using a built-in laser pointer.
- Automatic fine tuning of operation frequencies with the lowest interference level for operation in a complex electromagnetic environment.
- Lornet detector successfully detects any electronic devices, powered or switched off.

Delivery set

- R-T unit with a control knob
- 2 removable (LI-ION) rechargeable batteries (3.6V)
- Battery charging container
- Battery charging adaptor (220V)
- Wireless headset and receiver
- AC adapter for the receiving device (220V)
- Soft storage bag
- Use manual

Technical specifications

Size (LxWxT)..... 47 x 32 x 19 cm
Weight..... 1,5 kg
Frequency band..... 3600MHz
Operation time..... up to 3h in pulse mode
1,5h in continuous mode

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Non-linear Junction Detector Lornet-24

Purpose and Advantages

- Locating of miniature electronics such as SIM cards, RFID tags, and GPS trackers, as well as electronic bugs in buildings and vehicles, such as wireless microphones, digital audio recorders, mobile phones.
- The compact and very light detector with thin antenna module make it possible to carry out bug sweeping service in a limited space and hard-to-reach places.
- Inspection of physical objects and natural persons for prohibited electronic devices on the entrance into a guarded area.
- Lornet detector successfully detects any electronic devices, powered or switched off.

Technical specifications

Size (LxWxT)…… 39 x 10 x 7 cm
Weight…….. 700 g
Frequency band……. 2400MHz
Operation time…… over 3h (at pulse mode)
1,5h (at continuous mode)

Delivery set

- R-T unit with a control knob
- 2 removable (LI-ION) rechargeable batteries (3.6V)
- Battery charging container
- Battery charging adaptor (220V)
- Wireless headset and receiver
- AC adapter for the receiving device (220V)
- Soft storage bag with lodgement
- User manual

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DETECTORS

TSCM

RECORDERS